

Cheyenne County

8/31/2020

Background Statistics¹

Number of farms: 384

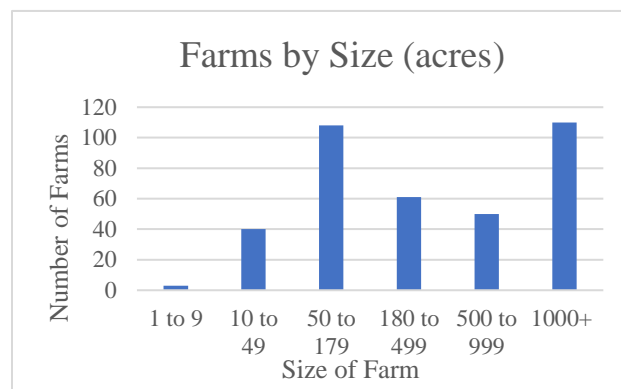
Average size: 1,378 acres

Land in farms: 529,326 acres

Average value of products sold per farm: \$345,715

Average net cash farm income per farm: \$75,628

1: Data from USDA 2017 Census of Agriculture



Estimated Economic Contribution of Agriculture and Agriculture Related Sectors to the Cheyenne County Economy

Methodology

The estimated economic contribution of agriculture and agriculture related sectors was computed using the most recent IMPLAN data available (2018) adjusted for 2020. The IMPLAN modeling system was used to calculate the results of this analysis. The IMPLAN model was constructed so that double counting was avoided. For this report, 16 of the 71 agriculture and agriculture related sectors in Kansas were identified and analyzed to determine their overall contribution to the Cheyenne County economy.

Results

These 16 sectors have a total direct output of approximately **\$155.2 million** and account for **483 jobs** in Cheyenne County. Running the model for all 16 sectors simultaneously produces the following results:

| Agriculture, Food, and Food Processing Sector Contribution to Overall Cheyenne County Economy | | | | | |
|---|------------|--------------|---------------------|-----------------------------|----------------------|
| Contribution Type | Employment | % Employment | Total Value Added | % of Gross Regional Product | Output |
| Direct Effect | 483 | 28% | \$36,600,000 | 29% | \$155,200,000 |
| Indirect Effect | 93 | 5% | \$9,000,000 | 7% | \$21,300,000 |
| Induced Effect | 71 | 4% | \$4,600,000 | 4% | \$9,200,000 |
| Total Effect | 647 | 37% | \$50,100,000 | 40% | \$185,700,000 |

NOTE: Individual effects may not equal the total effect due to rounding.

As shown in the above table, agriculture, food, and food processing sectors support a total of **647 jobs**, or **37%** of the entire workforce in the county. The total final sales of all products in these sectors is approximately **\$185.7 million**.

Another metric used to calculate the importance of sectors in an economy is their value added as a percentage of Gross Regional Product (GRP). Total value added by the 16 agriculture, food, and food processing sectors is approximately **\$50.1 million**, or **40%** of the GRP.

Top Ten Sectors by Employment

Out of the agriculture and agriculture related sectors, beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming is the top employer with **220 jobs**. This table also illustrates the top ten sectors by total employment, including direct, indirect, and induced effects in Cheyenne County.

| Sector | Total Employment |
|--|------------------|
| Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming | 220 |
| Grain farming | 137 |
| Animal production, except cattle and poultry and eggs | 41 |
| Wholesale - Other nondurable goods merchant wholesalers | 27 |
| Support activities for agriculture and forestry | 23 |
| All other crop farming | 20 |
| Farm machinery and equipment manufacturing | 18 |
| Hospitals | 10 |
| Other real estate | 9 |
| Full-service restaurants | 7 |

Top Ten Sectors by Output

This table shows how much revenue is generated in other sectors by having a strong agriculture industry, including direct, indirect, and induced effects. The beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming sector is the top contributor, with approximately **\$66.7 million** to the Cheyenne County economy.

| Sector | Total Output |
|--|--------------|
| Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming | \$66,700,000 |
| Animal production, except cattle and poultry and eggs | \$56,100,000 |
| Wholesale - Other nondurable goods merchant wholesalers | \$9,800,000 |
| Farm machinery and equipment manufacturing | \$7,200,000 |
| Oilseed farming | \$7,100,000 |
| Dairy cattle and milk production | \$4,600,000 |
| Owner-occupied dwellings | \$4,400,000 |
| Petroleum refineries | \$2,100,000 |
| Truck transportation | \$1,900,000 |
| Other real estate | \$1,700,000 |

All Direct Sectors

Below is a summary of all agriculture data with employment levels and output level. These values can tell how many jobs are represented by each agriculture, food, and food processing sector and the output they contributed to the Cheyenne County economy. IMPLAN sectors are assigned based on North American Industry Classification System (NAICS) codes. Generally, this analysis includes three categories; production, manufacturing/processing, and services. Note that this analysis does not include wholesale or retail sales of final products, or ethanol production.

| Sector | Total Output | Total Employment |
|--|-----------------|------------------|
| Grain farming | \$66,658,472.20 | 137.39 |
| Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming | \$56,108,796.25 | 220.31 |
| Animal production, except cattle and poultry and eggs | \$9,788,822.91 | 41.38 |
| Farm machinery and equipment manufacturing | \$7,126,471.50 | 18.06 |
| Oilseed farming | \$4,647,759.41 | 2.30 |
| Dairy cattle and milk production | \$4,351,958.97 | 5.80 |
| Other animal food manufacturing | \$1,555,264.82 | 1.49 |
| Support activities for agriculture and forestry | \$1,554,270.28 | 23.49 |
| All other crop farming | \$1,255,547.86 | 19.89 |
| Greenhouse, nursery, and floriculture production | \$1,125,132.62 | 6.00 |
| Veterinary services | \$303,824.47 | 3.23 |
| Vegetable and melon farming | \$191,352.92 | 0.88 |
| Poultry and egg production | \$167,790.29 | 0.14 |
| Breweries | \$166,628.46 | 0.48 |
| Bread and bakery product, except frozen, manufacturing | \$140,115.17 | 1.21 |
| Frozen cakes and other pastries manufacturing | \$91,419.59 | 1.21 |

The following terms are used throughout the results shown in this report:

- **Direct effect:** the contribution from agricultural and food products
- **Indirect effect:** the contribution from farms and agricultural businesses purchasing inputs from supporting industries within the state
- **Induced effect:** the contribution from employees of farms, agricultural businesses, and supporting industries spending their wages on goods and services within the state
- **Value added** = labor income + indirect business taxes + other property type income
- **Gross Regional Product** = final demand of households + government expenditures + capital + exports – imports – institutional sales
- **Output** = intermediate inputs + value added
- **Employment:** full-time/part-time annual average i.e., 1 job lasting 12 months = 2 jobs lasting 6 months each = 3 jobs lasting 4 months each. A job is neither full-time nor part-time.
- Due to confidentiality policies that exist within several agencies from which IMPLAN collects their data, some sectors in some regions may not have all data available.

For more information, contact the Division of Agricultural Marketing, Advocacy and Outreach Agency Economist
785-564-6726

